

IN THE CLAIMS:

The following is a complete listing of claims in this application.

Claims 1-14 (canceled).

15. (currently amended) A method for producing a gas permeable substrate for supporting an object for processing, the substrate comprising carbon and having pore channels for carrying gas interspersed through the substrate, the substrate having a first lateral surface at which the object is supported, and an opposite lateral surface, comprising the steps of:

producing a framework made of at least one of carbon fibers and SiC fibers, and

stabilizing the framework with at least one pyrocarbon and/or silicon carbide coating that forms a matrix, such that the stabilized framework has a porosity level that forms the pore channels,

~~the stabilized framework or a segment thereof being used as the substrate~~

said pore channels being disposed between the first lateral surface and the opposite lateral surface, and opening onto the first lateral surface and the opposite lateral surface, to enable gas flow from the opposite lateral surface to the first lateral surface for treatment of the object by the gas which has passed through the pore channels.

16. (previously presented) A method according to claim 15, wherein the fibers are stabilized by means of vapor infiltration (CVI) and/or fluid impregnation.

17. (previously presented) A method according to claim 15, wherein the framework comprises stabilized felt, stabilized non-woven materials, or stabilized fabric layers.

18. (previously presented) A method according to claim 15, wherein the fibers are stabilized solely with carbon or

solely with silicon carbide.

19. (previously presented) A method according to claim 15, wherein the fibers are stabilized with a at least one coating selected from the group consisting of carbon and silicon carbide.

20. (previously presented) A method according to claim 15, wherein the fibers are stabilized with a graduated system of coatings that transitions from carbon to silicon carbide.

21. (previously presented) A method according to claim 15, wherein the stabilized framework has a porosity p , where $5\% \leq p \leq 95\%$.

22. (previously presented) A method according to claim 15, wherein the stabilized framework has at least one planar surface.